Applicant(s)/Patent under Reexamination Application/Control No. Index of Claims 10/044,408 OSTERKAMP, MARK ALAN Examiner Art Unit JOHN J. LEE 2684 (Through numeral) Cancelled Rejected Non-Elected N Allowed Restricted Interference

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| Claim Date             |          |  | 7   | Claim    |          |          | Date     |               |         |              |  |            |                 | CI       | aim      | Date     |  |               |          |           |                |             |          |                |                 |          |                |           |              |  |          |          |
|------------------------|----------|--|---|----------|----------|----------|----------|---------------|---------|--------------|--|------------|-----------------|----------|----------|----------|--|---------------|----------|-----------|----------------|-------------|----------|----------------|-----------------|----------|----------------|-----------|--------------|--|----------|----------|
|                        |          | 1  |   |          | П        | T        |          | Т             | T       | 7            |  |            |                 |          |          |          |  | П             |          |           |                |             |          |                |                 |          |                |           |              |  |          |          |
| ਰ                      | Original | 9  |   |          |          |          | -1       |               |         |              | ਰ  | Original   |                 |          |          |          |  |               |          |           |                | त्त         | Original |                |                 |          |                |           |              |  |          |          |
| Final                  | į        | k  |   |          |          |          |          | - 1           |         |              | Final  | ] <u>.</u> |                 | i I      |          |          |  |               |          | 1         |                | Final       | Ē        |                |                 |          |                |           |              |  |          |          |
| -                      | O'       | ريا  |   |          |          | - 1      |          |               |         |              | -  | ΙŌ         |                 |          |          |          |  |               |          |           |                | _           | Õ        |                |                 |          |                |           |              |  |          | ļ        |
|                        | 1        | 3  | -   | $\dashv$ | $\dashv$ | -        | +        | -             | +       | -            | -  | 51         | $\vdash$        |          | $\dashv$ | -        | $\dashv$                                       | +-            | ╁        | $\vdash$  |                | -           | 101      | -              | Н               | _        | -              | -         | -            | $\dashv$                                 | -        | ᅱ        |
| $\vdash$               | 2        | F  | 1   | -+       |          | $\dashv$ | +        | $\dashv$      | +       | - :::        | ⊩  | 52         | $\vdash$        | $\vdash$ | $\dashv$ |          | $\dashv$                                       |               | ┰        | +         |                |             |          | -              | $\vdash$        |          | $\vdash$       | $\dot{-}$ | -            |  | -        | $\dashv$ |
|                        |          | Н  | -   | $\dashv$ | $\dashv$ | +        | ┰        | $\dashv$      | +       | - :::        | ⊩  | 52         | -               | $\vdash$ | -+       | $\dashv$ | $\dashv$                                       | +             | +        | ╄╌┨       |                |             | 102      | $\vdash$       | $\vdash$        |          | Н              | -         |              | $\dashv$                                 | -        | $\dashv$ |
| $\vdash$               | 3        | Н  | H   | $\dashv$ | $\dashv$ | -        | +        | +             | +       | -            | <u></u>                                      | 53         | $\vdash$        | -        | $\dashv$ | -        | $\dashv$                                       | +             | ┿        | ₩         |                |             | 103      | -              | $\vdash$        | _        |                | _         | _            | $\dashv$                                 |          |          |
|                        | 4        | 1  | _   | $\dashv$ | -        | -        | +        | +             | -       | - :::        | <u> </u>                                     | 54         | $\vdash$        | $\dashv$ |          | -        | +  |               | -        | ╁┈┨       |                |             | 104      |                | Н               |          | Щ              |           |              |  | _        | _        |
|                        | 5        | Н  |   | -        |          | _}_      | _        | _             | _       | _[           | <u> </u>                                     | 55         | $\perp$         |          | 4        |          | _  | _ _           | 4_       | Ш         |                |             | 105      |                |                 |          | Ш              |           |              |  | _        | _        |
|                        | 6        | Ц  | _   | _        | _        |          | 4        | _ _           | _       | 4            | <u> </u>                                     | 56         | Ш               | $\sqcup$ | _        | _        | _  | _             | <u> </u> | $\bot$    |                |             | 106      |                | Ш               |          | L_             |           |              | $\Box$                                   | 4        | ᅴ        |
|                        | 7        | Ц  | $ldsymbol{le}}}}}}$ |          | _        | _        | 4        | _             | _       | _            | <u> </u>                                     | 57         |                 | $\sqcup$ | _        | _        | _  | _ _           |          | Ш         |                |             | 107      |                | Ш               |          |                |           |              |  |          |          |
|                        | 8        | Ш  |   |          |          |          |          |               |         | ╝            | <u></u>                                      | 58         |                 |          |          |          | $\perp$  |               |          | Ш         |                |             | 108      |                |                 |          |                |           |              |  |          |          |
|                        | 9        | Ш  |   |          |          |          | $\perp$  |               | $\perp$ | _ :::        | <u></u>                                      | 59         | $\Box$          | $\sqcup$ | _1       |          | $\perp$  | $\perp$       |          | Ш         |                |             | 109      |                |                 |          |                |           |              |  |          |          |
|                        | 10       | Ш  |   |          |          |          |          |               |         |              |  | 60         |                 |          |          |          |  |               |          |           |                |             | 110      |                |                 |          |                |           |              |  |          |          |
|                        | 11       |  |   |          |          | 1        |          |               |         |              | :[   | 61         |                 |          |          |          | Т  |               |          | П         |                |             | 111      |                |                 |          |                |           |              |  | $\neg$   | П        |
|                        | 12       | П  |   | T        | T        | $\top$   | T        | $\top$        | T       | 7:::         |  | 62         | П               |          | $\neg$   | $\neg$   | T  | T             | П        | П         |                |             | 112      |                | $\Box$          |          |                |           | $\Box$       | $\Box$                                   |          | $\neg$   |
|                        | 13       | Π  | П   | $\dashv$ | 寸        | $\top$   | $\top$   | $\top$        | 1       | ٦            |  | 63         | П               | $\sqcap$ | 寸        | 一        | 十  | $\neg$        | 十        | $\Box$    |                |             | 113      | П              | П               |          | $\neg$         | $\dashv$  | $\neg$       | $\dashv$                                 |          | $\dashv$ |
|                        | 14       | Ħ  | П   |          | T        | +        | $\top$   | 十             | +       | 7            |  | 64         | П               | $\dashv$ | 一        | $\dashv$ | $\dashv$                                       | $\top$        | 1        | $\sqcap$  |                |             | 114      | П              | $\vdash$        | $\neg$   | Н              |           |              | $\dashv$                                 | $\dashv$ | $\dashv$ |
|                        | 15       | H  | Н   | $\neg$   | $\dashv$ | $\dashv$ | $\top$   | $\dashv$      | $\top$  | اااا         |  | 65         | Н               | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$                                       | $\dashv$      | T        | $\vdash$  |                |             | 115      | Н              | $\vdash$        | $\dashv$ |                | $\dashv$  | $\vdash$     | $\dashv$                                 | $\dashv$ | $\dashv$ |
| $\vdash$               | 16       | H  | Н   |          | $\dashv$ | +        | $\dashv$ | $\dashv$      | +       | ۱!!!         | -  | 66         | $\vdash$        | -        | $\dashv$ | -        | +  | +             | +        | ╁┼        |                |             | 116      | Н              | $\vdash$        | $\dashv$ | $\vdash$       | $\dashv$  |              | $\dashv$                                 | $\dashv$ | $\dashv$ |
| $\vdash \vdash$        | 17       | +  | Н   | $\dashv$ | $\dashv$ | +        | +        | +             | +       | -            |  | 67         | Н               | $\vdash$ | ┥        | +        | $\dashv$                                       | $\dashv$      | +        | $\vdash$  |                |             | 117      | $\vdash$       | $\vdash$        | $\dashv$ | $\vdash$       | $\dashv$  | $\dashv$     | $\dashv$                                 | -        | $\dashv$ |
| $\vdash$               | 18       | Н  | $\vdash$  | -        | +        | +        | +        | +             | +       | -            | ⊩  | 68         | ╁╌┤             | $\vdash$ | $\dashv$ | +        | +  |               | ╂        | $\vdash$  |                |             | 118      | Н              | $\vdash \vdash$ | $\dashv$ | $\vdash\vdash$ |           | $\dashv$     | $\dashv$                                 | $\dashv$ | $\dashv$ |
|                        |          | ₩  | Н   | -        | +        | +        | +        | +             | +       | -{:::        | <b> </b>                                     |            | $\vdash$        | $\vdash$ | -+       | +        | +  | -             | ╂        | $\vdash$  |                |             | 110      | Н              | $\vdash$        |          | -              |           | -            | $\dashv$                                 | -        | $\dashv$ |
| $\vdash$               | 19       | 11   | -   |          | -        | -        | +        | +             | +       | -            | ⊩—   | 69         |                 | $\vdash$ | 4        | -        | +  | _             | ₩        | ┦         |                |             | 119      | _              | $\sqcup$        | _        |                | _         | _            | 4  | 4        | _        |
| ļ                      | 20       | Н-   | Ш   |          | -        | -        | 4        | -             |         | -            | <u> </u>                                     | 70         | $\vdash$        | $\dashv$ | -        | 4        | _  | - -           | —        | Ш         |                |             | 120      | Щ              |                 | _        | _              | _         | _            | 4  | _        | _        |
|                        | 21       | Щ  |   | _        | 4        | $\perp$  | 4        | 4             | 4       | -1111        |  | 71         | Ш               | _        | _        | _        | _  |               | _        | Ш         | ::::           |             | 121      |                | Щ               |          |                | _         | _            | _  | $\perp$  | _        |
|                        | 22       | Щ  |   | _        | _        |          | _ _      | _             | ┵       | _            |  | 72         | Ш               |          | _        |          | _  |               | 1        | Ш         |                |             | 122      | Ш              |                 |          |                |           |              |  |          | ╝        |
|                        | 23       | Ц  | Ш   | $\perp$  | $\perp$  | $\perp$  | $\perp$  | $\perp$       | $\perp$ | ╝            | <u></u>                                      | 73         | Ш               |          |          |          |  | $\perp$       |          | Ш         |                |             | 123      |                |                 |          |                | ]         |              |  |          |          |
|                        | 24       | Ш  |   |          |          |          |          | L             |         |              |  | 74         |                 |          |          | i_       |  |               |          |           |                |             | 124      |                |                 |          |                |           |              |  |          |          |
|                        | 25       | Ш  |   |          |          |          |          |               | $\perp$ | _];;;        |  | 75         |                 |          |          |          |  |               |          |           |                |             | 125      |                |                 |          |                | $\neg$    |              | $\neg$                                   |          |          |
|                        | 26       |  |   |          |          |          |          |               | T       | 7            |  | 76         | П               |          |          | Т        | Т  | $\top$        |          | П         |                |             | 126      |                |                 |          |                |           |              | $\neg$                                   | $\neg$   |          |
|                        | 27       | П  |   | П        |          | $\neg$   | П        | Т             | Т       | 7            |  | 77         | П               |          |          |          |  |               |          | П         |                |             | 127      |                |                 | $\neg$   |                |           |              | $\neg$                                   | $\neg$   |          |
|                        | 28       | П  |   |          |          | $\neg$   | Т        | $\neg \vdash$ |         | 7            |  | 78         |                 |          | T        | $\neg$   |  | $\top$        | $\top$   |           |                |             | 128      |                |                 | $\neg$   |                |           | $\neg$       | 寸  | 寸        | $\neg$   |
|                        | 29       | П  |   |          |          | $\neg$   |          | $\neg$        |         | ١!!!         |  | 79         |                 |          | 寸        | $\neg$   | 十  | $\neg \vdash$ | 1        | П         |                |             | 129      | П              |                 |          |                | ┪         | $\dashv$     | 寸  | 寸        |          |
|                        | 30       | Н  |   | $\dashv$ | $\neg$   |          | 十        | $\top$        | T       | <b>⊣</b> !!! |  | 80         |                 | $\neg$   | $\dashv$ | $\dashv$ | $\top$   | +             | 1        | H         |                |             | 130      |                |                 | _        | $\dashv$       |           | ᅱ            | $\dashv$                                 | ┪        | $\dashv$ |
|                        | 31       | Н  |   |          | $\dashv$ | _        | _        |               | +       | -            | -  | 81         |                 | -        | 十        | -+       | ╅  | $\dashv$      | +        | $\vdash$  |                |             | 131      | Н              |                 | -        | $\dashv$       | $\dashv$  |              | +  | $\dashv$ | ᅱ        |
| $\vdash$               | 32       | H  | $\vdash$  | $\dashv$ | $\dashv$ |          | +        | +             | ╅       | ┨Ш           | $\vdash$                                     | 82         | ╂═┦             | $\dashv$ | $\dashv$ | +        | ╅  |               | +-       | Н         |                |             | 132      | Н              |                 | $\dashv$ | $\dashv$       |           | $\dashv$     | -  | -        | $\dashv$ |
| $\vdash \vdash \vdash$ | 33       | +  | $\vdash$  | $\dashv$ | +        | +        | +        | +             | +       | -            | $\vdash$                                     | 83         | $\vdash$        | $\dashv$ | +        | +        | +  | +-            | +        | $\vdash$  |                |             | 132      |                | $\dashv$        | $\dashv$ | $\dashv$       | $\dashv$  | $\dashv$     |  | $\dashv$ | $\dashv$ |
| $\vdash$               | 34       | H  | $\vdash \vdash$   | $\dashv$ | +        | +        | +        | +             | +       | -            | <u> </u>                                     | 84         | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | +  | +             | +        | $\vdash$  |                |             | 133      | $\vdash\vdash$ | -               | $\dashv$ |                |           | -            | -  | -        | $\dashv$ |
| $\vdash$               |          | H  | $\vdash$  | -+       | $\dashv$ | +        | +        |               |         | -            |  |            | $\vdash \vdash$ | -        | -        | -        | +  | +             | $\vdash$ |           |                |             | 134      | $\sqcup$       | 4               |          | _              |           |              | 4  | -        | $\dashv$ |
| $\vdash \vdash$        | 35       | H  | $\vdash$  | -        |          | +        |          | +             | +       | -            | <u> </u>                                     | 85         |                 | 4        |          | $\dashv$ | -  | - -           | -        | $\vdash$  |                |             | 135      | $\sqcup$       | 4               | _        |                | _         | _            | 4  | 4        | _        |
| $\vdash$               | 36       | بل.  | $\square$   | 4        | +        | 4        | +        | -             | +       | -            | <u> </u>                                     | 86         | Ц               | _        | 4        | 4        | 4  | +             | $\vdash$ | Щ         | ]              |             | 136      | Щ              | _               |          | $\Box$         |           | _            | _  |          | Ц        |
| $\vdash$               | 37       | 1  | Щ   | 4        | $\perp$  | 4        | _        | $\bot$        | 4       | 4            | <u> </u>                                     | 87         | $\sqcup$        | _        | _        | $\perp$  | _  | _ _           | ╀        | $\sqcup$  |                |             | 137      |                |                 |          |                |           |              | $\perp$                                  | $\perp$  | ╝        |
| $\coprod$              | 38       | Ĺ  | $\Box$  | 4        | _        | $\perp$  | _        | _             | ᆚ       | _            | <u> </u>                                     | 88         | Ш               | $\perp$  | $\dashv$ | $\perp$  | $\bot$   |               |          | Ш         |                |             | 138      | Ш              |                 |          |                | [         | $\Box$       |  |          |          |
| $\square$              | 39       | $ldsymbol{ld}}}}}}$ | Ш   |          |          | $\perp$  | $\perp$  | $\perp$       | $\perp$ | ╝            |  | 89         | Ш               |          |          |          | $oldsymbol{\perp}$                             | $\perp$       | L        |           | I              |             | 139      | ot             |                 |          | I              |           |              | $ \_                                   $ | ſ        |          |
| $oxed{oxed}$           | 40       |  |   |          |          |          | $\perp$  |               |         |              |  | 90         | $\Box$          |          | $\Box$   | $\Box$   | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{I}}}$ |               | L        |           |                |             | 140      |                | T               | 1        | _7             |           |              | $\Box$                                   |          |          |
|                        | 41       |  |   | $\Box$   | $\Box$   |          | ╧        | $\prod$       |         |              | L  | 91         | $\Box$          | $\Box$   | T        |          | Т  |               |          |           |                |             | 141      |                | $\neg$          |          | $\neg$         | $\neg$    | ヿ            | $\Box$                                   |          |          |
|                        | 42       |  |   | T        |          |          | Т        |               | T       | ]            |  | 92         | П               | 1        | 1        | 丁        | T  | $\top$        | Т        |           |                |             | 142      | $\neg$         | $\neg$          | $\neg$   | 寸              | ヿ         | $\neg$       | 十  | $\dashv$ | $\neg$   |
|                        | 43       |  | $\neg$  |          | $\dashv$ | $\top$   | $\top$   |               | $\top$  | 7:::         |  | 93         | П               | $\neg$   | 1        | 寸        | 十  | $\top$        |          | П         | <b>l</b>       |             | 143      | $\dashv$       | _               | -        | $\dashv$       | ヿ         | 一            | +  | $\dashv$ | $\dashv$ |
|                        | 44       |  | $\Box$  | $\neg$   | 十        | 十        | $\top$   | 十             | $\top$  | 7            |  | 94         | П               | $\dashv$ | $\dashv$ | 十        | $\top$   | $\top$        | T        | $\Box$    | <b>l</b>       | $\neg \neg$ | 144      | $\dashv$       | $\dashv$        | $\dashv$ | $\dashv$       | $\dashv$  | <del> </del> | +  | $\dashv$ | $\dashv$ |
|                        | 45       |  |   | 寸        | 十        | $\top$   | +        | $\top$        | 十       | ۱            |  | 95         | Н               | $\dashv$ | $\dashv$ | +        | +  |               | 1        |           |                |             | 145      | $\vdash$       | +               | -        | $\dashv$       | $\dashv$  | ᅱ            | $\dashv$                                 | $\dashv$ | $\dashv$ |
| ┝┯┪                    | 46       | $\vdash$   | -   | 十        | $\dashv$ | +        | +        | +             | +       | ۱            | $\vdash$                                     | 96         | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$ | +  | +             | $\vdash$ | H         |                |             | 146      | $\dashv$       | $\dashv$        | ᅱ        | -              | $\dashv$  | $\dashv$     | -+                                       | +        | $\dashv$ |
| $\vdash$               | 47       | Н  | -   | $\dashv$ | +        | +        | +        | +             | +       | ۱            | $\vdash$                                     | 97         | $\vdash$        | $\dashv$ | $\dashv$ | +        | -  | +             | +        | H         | ::::}          |             | 147      | $\dashv$       | $\dashv$        |          | -              | $\dashv$  | $\dashv$     | +  | $\dashv$ | $\dashv$ |
| ┝╌┥                    | 48       | $\dashv$   | $\dashv$  | +        | +        | +        | +        | +             | +       | -            | <del></del>                                  | 98         | ┝╼┤             | $\dashv$ | $\dashv$ | +        | +  | +             | +        | -         |                |             |          | -              | $\dashv$        | -        | -              | $\dashv$  |              | $\dashv$                                 | +        | $\dashv$ |
| $\vdash$               |          | $\vdash$   | -   | $\dashv$ | +        | +        |          | +             | ┰       | -            |  |            | $\vdash \vdash$ | +        | +        | +        | -  | - -           | -        | $\square$ |                |             | 148      | _              | -               | _        |                | -         | 4            | -  | 4        | _        |
| <del>  </del>          | 49<br>50 | $\vdash$   | $\dashv$  | +        | +        | +        | +-       | +             | +       | 4            | <u> —                                   </u> | 99         |                 | -+       | 4        | +        | +  | - -           | 1        | $\square$ | ).             |             | 149      | $\Box$         | _               | _        | _              | _         | _            | 1  | 4        | _        |
|                        | - NI I   | 1  |   |          |          |          | $\perp$  |               |         |              |  | 100        |                 |          |          |          | 1  | i             | L        | السا      | ::: <b>:</b> [ |             | 150      |                |                 |          | _ 1            | - 1       |              |  |          |          |